

Express Mail Label : EL 951611709 US
Date of Mailing: February 25, 2002

J1046 U.S.P.T.O.
10/084843
02/25/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

REED et al.

Application No.: Unassigned

Filed: Herewith

For: COMPOUNDS AND METHODS
FOR IMMUNOTHERAPY AND
DIAGNOSIS OF TUBERCULOSIS

Examiner: Unassigned

Art Unit: Unassigned

**INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR §1.97 and
§1.98**

Assistant Commissioner for Patents
Washington, D.C. 20231

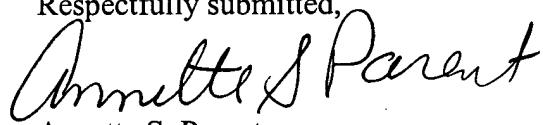
Sir:

The references cited on attached forms PTO-1449 are being called to the attention of the Examiner. In accordance with 37 CFR §1.98(d), copies of the references can be found in Application No. 09/072,967, filed May 5, 1998 (Attorney Docket No. 014058-008590US). It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



Annette S. Parent
Reg. No. 42,058

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PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, DC 20231.

MAY 22, 1998

David J. Maki



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Steven G. Reed et al.
Application No. : 09/072,967
Filed : May 5, 1998
For : COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
Docket No. : 210121.411C9
Date : May 22, 1998

Assistant Commissioner for Patents
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449. This application is a continuation-in-part and relies, under 35 U.S.C. § 120, on the earlier filing date of prior U.S. Application No. 09/025,197, filed February 18, 1998; which is a continuation-in-part of U.S. Application No. 08/942,578, filed October 1, 1997; which is a continuation-in-part of U.S. Application No. 08/818,112, filed March 13, 1997; which is a continuation-in-part of U.S. Application No. 08/730,510, filed October 11, 1996; which claims priority from PCT Application No. PCT/US 96/14674, filed August 30, 1996; and is a continuation-in-part of U.S. Application No. 08/680,574, filed July 12, 1996; which is a continuation-in-part of U.S. Application No. 08/659,683, filed June 5, 1996; which is a continuation-in-part of U.S. Application No. 08/620,874, filed March 22, 1996; which is a continuation-in-part of U.S. Application No. 08/533,634, filed September 22, 1995; which is a continuation-in-part of U.S. Application No. 08/523,436, filed on September 1, 1995, now abandoned. The references listed on the attached Form PTO-1449 were submitted to and/or cited by the Office in this prior application and, therefore, are not required to be provided in the present application. However, the following references were not submitted to and/or cited by the Office and are being submitted herewith:

- US 5,108,745
- WO 95/14713

- Lowrie et al., "Towards a DNA vaccine against tuberculosis,"
Vaccine 12(16):1537-1540, 1994.

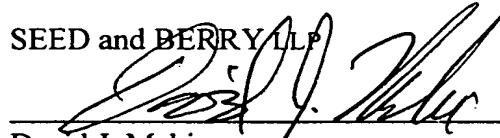
As to any reference previously submitted, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference, as by showing under 37 C.F.R. § 1.131 or other method. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Please acknowledge receipt of this Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

Steven G. Reed et al.

SEED and BERRY LLP



David J. Maki
Registration No. 31,392

DJM:jto

Enclosures:

Postcard
Form PTO-1449
Cited References (3)

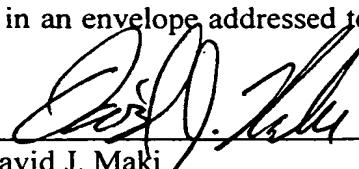
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PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, DC 20231.

Date

JUNE 3, 1998


David J. Maki

J1046 U.S. PRO
10/084843
02/25/02


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Steven G. Reed et al.
Application No. : 09/072,967
Filed : May 5, 1998
For : COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
AND DIAGNOSIS OF TUBERCULOSIS
Docket No. : 210121.411C9
Date : June 3, 1998

Assistant Commissioner for Patents
Washington, DC 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicants wish to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies of the cited references, as required under 37 C.F.R. § 1.98, are enclosed). As to any reference supplied, applicants do not admit that it is "prior art" under 35 U.S.C. §§ 102 or 103, and specifically reserve the right to traverse or antedate any such reference. Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicants' duty to disclose all information they are aware of which is believed relevant to the examination of the above-identified application, applicants believe that their invention is patentable.

Reference AJ (FR 2 244 539) on page 1 of the attached Form PTO-1449, is written in French. Applicants note that United States Patent 3,943,119 (Reference AA on page 1) is a related application that claims identical priority as FR 2 244 539 and is written in English.

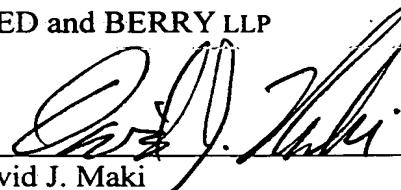
Reference AK (FR 2 265 402) on page 1 of the attached Form PTO-1449, is written in French. Applicants note that United States Patent 3,943,119 (Reference AA on page 1) is a related application that claims identical priority as FR 2 265 402 and is written in English.

Please acknowledge receipt of this Supplemental Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

Steven G. Reed et al.

SEED and BERRY LLP



David J. Maki

Registration No. 31,392

DJM:jto

Enclosures:

Postcard
Form PTO-1449
Cited References (8)

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FORM PTO-1449 (R&V.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 210121.411C9	APPLICATION NO. 09/072,967
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>				APPLICANTS Steven G. Reed et al.	
				FILING DATE May 5, 1998	GROUP ART UNIT

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	5,108,745	4/28/92	Horwitz	424	92	
AB						
AC						
AD						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AE	EP 419 355 A1	3/27/91	EPO				
	AF	EP 519 218 A2	12/23/92	EPO (WPI Acc. No. 92-390976)				X
	AG	WO 88/05823	8/11/88	PCT				
	AH	WO 91/04272	4/4/91	PCT				
	AI	WO 91/14448	10/3/91	PCT				

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

AJ	Andersen and Hansen, "Structure and Mapping of Antigenic Domains of Protein Antigen b, a 38,000-Molecular-Weight Protein of <i>Mycobacterium tuberculosis</i> ," <i>Infection and Immunity</i> 37(8):2481-2488, 1989.	
AK	Andersen et al., "Identification of Immunodominant Antigens during Infection with <i>Mycobacterium tuberculosis</i> ," <i>Scand. J. Immunol.</i> 36:823-831, 1992.	
AL	Andersen, P., "Effective Vaccination of Mice against <i>Mycobacterium tuberculosis</i> Infection with a Soluble Mixture of Secreted Mycobacterial Proteins," <i>Infection and Immunity</i> 62(6):2536-2544, 1994.	
AM	Ausebel et al., "Isolation of Proteins for Microsequence Analysis," in Current Protocols in Molecular Biology, Wiley & Sons, New York, 1993, pgs. 10.19.1-10.19.12.	
AN	Barnes et al., "Immunoreactivity of a 10-kDa Antigen of <i>Mycobacterium tuberculosis</i> ," <i>The Journal of Immunology</i> 148(6):1835-1840, 1992.	
AO	Boesen et al., "Human T-Cell Responses to Secreted Antigen Fractions of <i>Mycobacterium tuberculosis</i> ," <i>Infection and Immunity</i> 63(4):1491-1497, 1995.	
AP	Borremans et al., "Cloning, Sequencing Determination, and Expression of a 32-Kilodalton-Protein Gene of <i>Mycobacterium tuberculosis</i> ," <i>Infection and Immunity</i> 57(10):3123-3130, 1989.	

EXAMINER

DATE CONSIDERED

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
210121.411C9APPLICATION NO.
09/072,967

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANTS

Steven G. Reed et al.

FILING DATE

May 5, 1998

GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AE	WO 92/04049	3/19/92	PCT				
	AF	WO 92/14823	9/3/92	PCT				
	AG	WO 92/21758	12/10/92	PCT				
	AH	WO 94/00493	1/6/94	PCT				
	AI	WO 95/01440	1/12/95	PCT				
	AJ	WO 95/01441	1/12/95	PCT				

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AK		Content et al., "The Genes Coding for the Antigen 85 Complexes of <i>Mycobacterium tuberculosis</i> and <i>Mycobacterium bovis</i> BCG Are Members of a Gene Family: Cloning, Sequence Determination, and Genomic Organization of the Gene Coding for Antigen 85-C of <i>M. tuberculosis</i> ," <i>Infection and Immunity</i> 59:3205-3212, 1991.
AL		Horowitz et al., "Protective immunity against tuberculosis induced by vaccination with major extracellular proteins of <i>Mycobacterium tuberculosis</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 92:1530-1534, 1995.
AM		Lowrie et al., "Towards a DNA vaccine against tuberculosis," <i>Vaccine</i> 12(16):1537-1540, 1994.
AN		Matsumoto et al., "Cloning and Sequencing of a Unique Antigen MPT70 from <i>Mycobacterium tuberculosis</i> H37Rv and Expression in BCG Using <i>E. coli</i> -Mycobacteria Shuttle Vector," <i>Scand. J. Immunol.</i> 41:281-287, 1995.
AO		Nagai et al., "Isolation and Partial Characterization of Major Protein Antigens in the Culture Fluid of <i>Mycobacterium tuberculosis</i> ," <i>Infection and Immunity</i> 59(1):372-382, 1991.
AP		Oettinger and Andersen, "Cloning and B-Cell-Epitope Mapping of MPT64 from <i>Mycobacterium tuberculosis</i> H37Rv," <i>Infection and Immunity</i> 62(5):2058-2064, 1994.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

FORM PTO-1449 (REV.7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 210121.411C9	APPLICATION NO. 09/072,967
INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		APPLICANTS Steven G. Reed et al.			
		FILING DATE May 5, 1998	GROUP ART UNIT		

U.S. PATENT DOCUMENTS

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	AA						
	AB						
	AC						
	AD						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AE	WO 95/14713	6/1/95	PCT				
	AF							
	AG							
	AH							

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

AI	Pal and Horwitz, "Immunization with Extracellular Proteins of <i>Mycobacterium tuberculosis</i> Induces Cell-Mediated Immune Responses and Substantial Protective Immunity in a Guinea Pig Model of Pulmonary Tuberculosis," <i>Infection and Immunity</i> 60(11):4781-4792, 1992.
AJ	Romain et al., "Isolation of a proline-rich mycobacterial protein eliciting delayed-type hypersensitivity reactions only in guinea pigs immunized with living mycobacteria," <i>Proc. Natl. Acad. Sci. USA</i> 90:5322-5326, 1993.
AK	Romain et al., "Preparation of Tuberculin Antigen L," <i>Ann. Inst. Pasteur/Microbiol.</i> 136B:235-248, 1985.
AL	Wallis et al., "Identification of Antigens of <i>Mycobacterium tuberculosis</i> Using Human Monoclonal Antibodies," <i>J. Clin. Invest.</i> 84:214-219, 1989.
AM	Wiker and Harboe, "The Antigen 85 Complex: a Major Secretion Product of <i>Mycobacterium tuberculosis</i> ," <i>Microbiological Reviews</i> 56(4):648-661, 1992.
AN	Yamaguchi et al., "Cloning and Characterization of the Gene for Immunogenic Protein MPB64 of <i>Mycobacterium bovis</i> BCG," <i>Infection and Immunity</i> 57(1):283-288, 1989.
AO	Young et al., "Screening of a Recombinant Mycobacterial DNA Library with Polyclonal Antiserum and Molecular Weight Analysis of Expressed Antigens," <i>Infection and Immunity</i> 55(6):1421-1425, 1987.

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT <i>(Use several sheets if necessary)</i>		APPLICANTS Steven G. Reed et al.	
		FILING DATE May 5, 1998	GROUP ART UNIT

J1046 U.S. PATENT & TRADEMARK OFFICE
02/25/02

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	3,943,119	3/9/76	Tsumita et al.	260	112.5R	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AJ	FR 2 244 539	5/23/75	French				
	AK	FR 2 265 402	11/28/75	French				
	AL	WO 95/31216	11/23/95	PCT				
	AM	WO 96/15241	5/23/96	PCT				
	AN	WO 96/23885	8/8/96	PCT				
	AO	WO 97/09428	3/13/97	PCT				
	AP	WO 97/09429	3/13/97	PCT				

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

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